

Epidemiology and Prevention of Vaccine-Preventable Diseases 2008
Session 4

Case Study 1: Maria

Maria is a 2 year old who has been hospitalized for 4 weeks following a motor vehicle crash. Because of injuries to her pelvis she is in a cast from her waist to her knees. She is otherwise healthy. Maria is doing well and will be discharged tomorrow. It is currently influenza season and there is an outbreak in the community affecting the hospital. Maria's mother is pregnant. Maria's grandmother, who lives with the family, is receiving chemotherapy for multiple myeloma. The hospital is able to access Maria's immunization history through the state registry.

Vaccination history (from the registry):

- Hepatitis B vaccine at birth.
- Pediarix (DTaP, IPV, hepatitis B) at 2, 4, and 6 months of age.
- Hib vaccine at 2, 4, 6, and 12 months of age.

Questions:

What vaccines are indicated for Maria?

What sites should be used to administer the vaccines she needs today?

When should Maria be scheduled for her next immunization visit?

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Case Study 2: Michelle

Michelle is 22 years old and is beginning nursing school. She has mild asthma, which is controlled with the occasional use of an albuterol inhaler. She was told by her parents that she had chickenpox at age 5 years but has no documentation of this.

Michelle has a written record of having received 5 doses of DTP, 5 doses of OPV, and 2 doses of MMR in childhood, and a 3-dose series hepatitis B vaccine at 12 years of age. The nursing school requires serologic proof of hepatitis B immunity. Her anti-HBs test drawn 1 month ago is negative.

Questions:

What vaccine or vaccines should Michelle receive today?

What, if any, serologic testing should be done at today's visit?

When should Michelle return, and what vaccine or vaccines should she receive at that visit?